

B.TECH**(SEM VI) THEORY EXAMINATION 2018-19
TRANSPORT SYSTEM AND PLANNING****Time: 3 Hours****Total Marks: 100****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief.****2 x 10 = 20**

- a. Write the nature of traffic problem in cities.
- b. List the role of transportation on the basis of social aspect.
- c. Define traffic flow.
- d. What do you mean by IPT?
- e. Write the difference between MRTs and BRTS.
- f. What is trip generation?
- g. Define travel demand.
- h. What is net present value?
- i. Define modal split.
- j. Define travel demand.

SECTION B**2. Attempt any three of the following:****10x3=30**

- a. Write an Overview of transportation system Prevailing in India.
- b. Explain zoning and study area.
- c. What are the factors governing Trip generation and Attraction rates?
- d. Draw the flow diagram for modal split carried out between trip generation and Trip distribution and explain.
- e. Explain the difficulties in Transport Planning.

SECTION C**3. Attempt any one part of the following:****10x1=10**

- a. Explain the Different modes of surface transport.
- b. Discuss about Land Use Transport Planning.

4. Attempt any one part of the following:**10x1=10**

- a. What are the goals and objective of Transport Planning?
- b. Explain any two growth factors methods and any one synthetic method.

5. Attempt any one part of the following:**10x1=10**

- a. List the different assignment techniques and explain any one assignment techniques.
- b. Discuss the traffic assignment application in India.

6. Attempt any one part of the following:**10x1=10**

- a. Explain the surveys that are usually carried out during Urban transport Planning.
- b. Explain planning aspects of transportation system in smart cities.

7. Attempt any one part of the following:**10x1=10**

- a. Explain the independence of Land use and traffic.
- b. Define system approach. Explain the system approach to transport planning with a flow diagram.